

CLASSIFICATION:

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EXHIBIT R-2, RDT&E Budget Item Justification							DATE: February 2000																																																																			
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE																																																																					
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY/BA7					Amphibious Tactical Support Unit/0204413N																																																																					
COST (\$ in Millions)	Prior Year	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost																																																																
Total PE Cost	0.649	1.822	0.000	7.911	13.589	8.424	6.884	0.191	0.000	39.470																																																																
SACC AUTOMATION/21980	0.000	0.000	0.000	0.000	5.787	7.467	6.884	0.191	0.000	20.329																																																																
MULTI-MISSION LCAC/LCU REPLACEMENT/22231	0.649	1.822	0.000	2.932	7.802	0.957	0.000	0.000	0.000	14.162																																																																
AMPHIBIOUS LIGHTERAGE DEVELOPMENT/Y2909	0.000	0.000	0.000	4.979	0.000	0.000	0.000	0.000	0.000	4.979																																																																
Quantity of RDT&E Articles																																																																										
<p>A. Mission Description and Budget Item Justification: This Program Element supports various amphibious development efforts.</p> <p>B. Program Change Summary:</p> <table style="width: 100%; border: none;"> <thead> <tr> <th></th> <th style="text-align: right;">FY 1999</th> <th style="text-align: right;">FY 2000</th> <th style="text-align: right;">FY 2001</th> </tr> </thead> <tbody> <tr> <td>FY 2000 President's Budget:</td> <td style="text-align: right;">1.869</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">2.952</td> </tr> <tr> <td>Appropriated Value:</td> <td style="text-align: right;">1.869</td> <td></td> <td></td> </tr> <tr> <td>Adjustments to FY 1999 Appropriated Value/</td> <td></td> <td></td> <td></td> </tr> <tr> <td> FY 2000 President's Budget:</td> <td></td> <td></td> <td></td> </tr> <tr> <td> Funding:</td> <td></td> <td></td> <td></td> </tr> <tr> <td> a. SBIR</td> <td style="text-align: right;">-0.015</td> <td></td> <td></td> </tr> <tr> <td> b. NWCF Rate Adjustments</td> <td></td> <td></td> <td style="text-align: right;">0.026</td> </tr> <tr> <td> c. Mid-Year Review Reprogrammings (BTR)</td> <td style="text-align: right;">-0.018</td> <td></td> <td></td> </tr> <tr> <td> d. Inflation Savings</td> <td style="text-align: right;">-0.009</td> <td></td> <td style="text-align: right;">-0.059</td> </tr> <tr> <td> e. Other Execution Adjustments</td> <td style="text-align: right;">-0.005</td> <td></td> <td></td> </tr> <tr> <td> f. Navy Ops Adjustments</td> <td></td> <td></td> <td style="text-align: right;">-0.008</td> </tr> <tr> <td> g. Realign Funding from OPN to RDT&E (Y2909)</td> <td></td> <td></td> <td style="text-align: right;">5.000</td> </tr> <tr> <td>FY 2001 PRES Budget Submit:</td> <td style="text-align: right;">1.822</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">7.911</td> </tr> <tr> <td>Schedule : Not Applicable</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Technical: Not Applicable</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												FY 1999	FY 2000	FY 2001	FY 2000 President's Budget:	1.869	0.000	2.952	Appropriated Value:	1.869			Adjustments to FY 1999 Appropriated Value/				FY 2000 President's Budget:				Funding:				a. SBIR	-0.015			b. NWCF Rate Adjustments			0.026	c. Mid-Year Review Reprogrammings (BTR)	-0.018			d. Inflation Savings	-0.009		-0.059	e. Other Execution Adjustments	-0.005			f. Navy Ops Adjustments			-0.008	g. Realign Funding from OPN to RDT&E (Y2909)			5.000	FY 2001 PRES Budget Submit:	1.822	0.000	7.911	Schedule : Not Applicable				Technical: Not Applicable			
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Technical: Not Applicable																																																																										

R-1 SHOPPING LIST - Item No. 165 -1 of 165 - 12

Exhibit R-2, RDT&E Budget Item Justification
(Exhibit R-2, Page 1 of 12)

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2000																								
APPROPRIATION/BUDGET ACTIVITY RDT&E,N/BA7		PROGRAM ELEMENT NAME AND NUMBER Amphibious Tactical Spt Unit/0204413N			PROJECT NAME AND NUMBER Amphibious Other C2 (SACC Automation)/21980																										
COST (\$ in Millions)			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost																				
Project Cost			0.000	0.000	0.000	5.787	7.467	6.884	0.191	0.000	20.329																				
RDT&E Articles Qty																															
<p>A. Mission Description and Budget Item Justification: The Supporting Arms Coordination Center (SACC) initiative is to automate the communications and data flow that calls for fire and supporting arms for marine forces ashore. Currently the process is all manual and voice accomplished which, in the future, will be unresponsive to the needs of supported forces. Specifically, this project will develop the Naval Fire Control System and procure two engineering development ship sets for installation. It will also provide interface with the Advance Combat Direction System (ACDS) which brings the automated functions of supporting arms into the coherent tactical picture.</p> <p>FY 1999 Accomplishments: Not Applicable FY 2000 Plan: Not Applicable FY 2001 Plan: Not Applicable</p> <p>B. Other Program Funding Summary</p> <table><tr><td></td><td>FY1999</td><td>FY2000</td><td>FY2001</td><td>FY2002</td><td>FY2003</td><td>FY2004</td><td>FY2005</td><td>To Complete</td><td>Total Cost</td></tr><tr><td>OPN Line 098100 Items Under \$5M</td><td>0</td><td>0</td><td>0</td><td>346</td><td>346</td><td>873</td><td>873</td><td>Con't</td><td>Con't</td></tr></table> <p>The procurement items are for jam boxes, Automated Distribution Network Systems (ADNS), and racks which will be permanent changeouts to the amphibious ships. These need to be in place in order to permit the connection of the automated SACC capabilities.</p> <p>(U) Related RDT&E: Not Applicable</p> <p>C. Acquisition Strategy: This project is part of a collaboration between N85 and N86 to jointly develop and field a Naval Fire Control System (NFCS) that satisfies the requirements of naval and supported forces. The NFCS is to be an ACAT III program under N86 management.</p>													FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	To Complete	Total Cost	OPN Line 098100 Items Under \$5M	0	0	0	346	346	873	873	Con't	Con't
	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	To Complete	Total Cost																						
OPN Line 098100 Items Under \$5M	0	0	0	346	346	873	873	Con't	Con't																						

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APPROPRIATION/BUDGET ACTIVITY RDT&E,N/BA7	PROGRAM ELEMENT NAME AND NUMBER Amphibious Tactical Spt Unit/0204413N	PROJECT NAME AND NUMBER Amphibious Other C2 (SACC Automation)/21980
<div>D. Schedule Profile:</div> <div><div>Program Milestones</div><div>Engineering Milestones T&E Milestones Contract Milestones</div></div> <div><div>FY01</div><div>- Not Applicable</div></div> <div><div>To Complete</div><div>- Conduct a SACC reconfiguration study - Develop SACC specific software functions - Address amphibious ship specific engineering and intregation issues</div></div>		

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Exhibit R-3 Cost Analysis (page 1)										DATE: February 2000		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
RDT&E,N			Amphibious Tactical Spt Unit/0204413N			Amphibious Other C2 (SACC Automation)/21980						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 99 Cost	FY 99 Award Date	FY 00 Cost	FY 00 Award Date	FY 01 Cost	FY 01 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development										16.729	16.729	
Ancillary Hardware Development											0.000	
Systems Engineering											0.000	
Licenses											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal Product Development			0.000	0.000		0.000		0.000		16.729	16.729	
Remarks: Software programs to inegrate and automate SACC functions												
Development Support Equipment											0.000	
Software Development										2.800	2.800	
Training Development											0.000	
Integrated Logistics Support											0.000	
Configuration Management											0.000	
Technical Data											0.000	
GFE											0.000	
Subtotal Support			0.000	0.000		0.000		0.000		2.800	2.800	
Remarks: Preparation of ship alterations and tech drawings and accompanied support												

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Exhibit R-3 Cost Analysis (page 2)								DATE: February 2000				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
RDT&E,N			Amphibious Tactical Spt Unit/0204413N			Amphibious Other C2 (SACC Automation)/21980						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 99 Cost	FY 99 Award Date	FY 00 Cost	FY 00 Award Date	FY 01 Cost	FY 01 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation											0.000	
Operational Test & Evaluation											0.000	
Tooling											0.000	
GFE											0.000	
Subtotal T&E			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												
Contractor Engineering Support											0.000	
Government Engineering Support											0.000	
Program Management Support										0.800	0.800	
Travel											0.000	
Labor (Research Personnel)											0.000	
Overhead											0.000	
Subtotal Management			0.000	0.000		0.000		0.000		0.800	0.800	
Remarks:												
Total Cost			0.000	0.000		0.000		0.000		20.329	20.329	
Remarks:												

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2000			
APPROPRIATION/BUDGET ACTIVITY RDT&E,N/BA7		PROGRAM ELEMENT NAME AND NUMBER Amphibious Tactical Spt Unit/0204413N			PROJECT NAME AND NUMBER MCAC Weapons Development (Multi-Mission LCAC and LCU)/22231					
COST (\$ in Millions)	Prior Year	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost
Project Cost	0.649	1.822	0.000	2.932	7.802	0.957	0.000	0.000		14.162
RDT&E Articles Qty										

A. Mission Description and Budget Item Justification: (Multi-Mission LCAC) - LCAC Control Enhancements initiates studies that will provide a remote control capability for LCAC and will be integrated and scheduled with developing minesweeping and shallow water mine-countermeasure systems. LCAC Deep Skirt will provide an improved LCAC performance in Sea State 3 and higher, and improved capability near and in the surf zone for explosive lane breaching missions in support of amphibious operations. This project completes at the end of FY 1999. (LCU) - This project supports development and procurement of a technologically advanced heavy lift utility landing craft to compliment the high speed, over-the-beach, ship-to-shore amphibious lift of the future.

FY 1999 Accomplishments (Multi-Mission LCAC):

- (\$0.335) Complete full scale testing of the Deep Skirt
- (\$0.450) Conduct MK 58 live fire demo to evaluate LCAC reaction under live fire in the surf zone as part of lane breaching mission.
- (\$0.495) Update LCAC and propeller mine vulnerability study
- (\$0.542) Develop air conditioning system improvements to assure adequate in surf zone operations

FY 2000 Plan: Not Applicable

FY 2001 Plan (LCU):

- (\$0.240) Conduct requirements update
- (\$0.495) Conduct enabling technologies study
- (\$1.219) Conduct feasibility studies (3 to 5 major variations)
- (\$0.498) Conduct analysis of alternatives
- (\$0.480) Conduct market survey analysis

B. Other Program Funding Summary (LCU)

	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	To Complete	Total Cost
SCN Line 510000 Service Craft	0	0	0	0	0	59.283	59.155	Cont.	Cont.
(U) Related RDT&E: Not Applicable									

C. Acquisition Strategy (LCU): Feasibility studies will be conducted to determine the best design to meet new Navy requirements for heavy lift utility landing craft and to support a performance specification that will be competitively awarded.

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Exhibit R-2a, RDT&E Project Justification
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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2000
APPROPRIATION/BUDGET ACTIVITY RDT&E,N/BA7	PROGRAM ELEMENT NAME AND NUMBER Amphibious Tactical Spt Unit/0204413N	PROJECT NAME AND NUMBER MCAC Weapons Development (Multi-Mission LCAC and LCU)/22231
<div>D. Schedule Profile (LCU):<div><div>Program Milestones</div><div>Engineering Milestones T&E Milestones Contract Milestones</div></div><div><div>FY01</div><div>- Mission needs statement approval - Assessment of alternatives</div></div><div><div>To Complete</div><div>- Evaluation of feasibility of alternatives - Enabling technology studies</div></div></div>		

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Exhibit R-3 Cost Analysis (page 1)						DATE: February 2000						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
RDT&E,N/BA7			Amphibious Tactical Spt Unit/0204413N			MCAC Weapons Development (Multi-Mission LCAC and LCU)/22231						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 99 Cost	FY 99 Award Date	FY 00 Cost	FY 00 Award Date	FY 01 Cost	FY 01 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	WR	NSWC Bethesda, Md								3.975	3.975	
Ancillary Hardware Development	WR	NSWC Bethesda, Md								1.975	1.975	
Systems Engineering	WR	NSWC Bethesda, Md								2.809	2.809	
Licenses											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal Product Development			0.000	0.000		0.000		0.000		8.759	8.759	
Remarks:												
Development Support Equipment											0.000	
Software Development											0.000	
Training Development											0.000	
Integrated Logistics Support											0.000	
Configuration Management											0.000	
Technical Data											0.000	
GFE											0.000	
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												

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Exhibit R-3 Cost Analysis (page 2)								DATE: February 2000				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
RDT&E,N			Amphibious Tactical Spt Unit/0204413N			MCAC Weapons Development (Multi-Mission LCAC and LCU)/22231						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 99 Cost	FY 99 Award Date	FY 00 Cost	FY 00 Award Date	FY 01 Cost	FY 01 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WR	NSWC,C and PSNSY, Bost	0.574	1.749							2.323	
Operational Test & Evaluation											0.000	
Tooling											0.000	
GFE											0.000	
Subtotal T&E			0.574	1.749		0.000		0.000		0.000	2.323	
Remarks: Requirement for MCAC Multi-mission is for three (3) prototype installations and demonstration trials.												
Contractor Engineering Support	CPRR	TMA	0.075	0.073	10/98						0.148	
Government Engineering Support	WR	NSWC Bethesda, Md						1.997			1.997	
Program Management Support	CPFF	various			10/98			0.935			0.935	
Travel											0.000	
Labor (Research Personnel)											0.000	
Overhead											0.000	
Subtotal Management			0.075	0.073		0.000		2.932		0.000	3.080	
Remarks:												
Total Cost			0.649	1.822		0.000		2.932		8.759	14.162	
Remarks:												

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EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2000																																								
APPROPRIATION/BUDGET ACTIVITY RDT&E,N/BA7	PROGRAM ELEMENT NAME AND NUMBER Amphibious Tactical Spt Unit/0204413N				PROJECT NAME AND NUMBER Amphibious Lighterage Development (JMLS Development)/Y2909																																									
COST (\$ in Millions)	Prior Year	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost																																				
Project Cost	0.000	0.000	0.000	4.979	0.000	0.000	0.000	0.000		4.979																																				
RDT&E Articles Qty																																														
<p>A. Mission Description and Budget Item Justification: Joint Modular Lighterage System (JMLS Development) - This project supports development and procurement of technology to develop a service-interoperable causeway lighterage system with the US Army, capable of assembly and operation (in a loaded condition) through Sea State 3. The Defense Planning Guidance includes requirements for SS3 JLOTS capability by FY05. Sea State 3 is defined as significant wave height of 3.5 feet to 5.0 feet per the Joint Logistics Over The Shore (JLOTS) Mission Need Statement. This project includes resolution of technical issues identified during Technical Evaluation and efforts to support/conduct Operation Evaluation of the JMLS system to support transition from an FY98/FY99 Advanced Concept Technology Demonstration (ACTD) to an acquisition program.</p> <p>FY 1999 Accomplishments (JMLS Development):</p> <ul style="list-style-type: none"> - JMLS ACTD contractor completed hardware design and began hardware fabrication. (Task accomplished with National Defense Sealift Funds) <p>FY 2000 Plan (JMLS Development):</p> <ul style="list-style-type: none"> - JMLS ACTD contractor completes hardware fabrication and Contractor Test and Demonstration. JMLS ACTD Operational Manager, JFCOM conducts Military Utility Assessment (MUA). (Task accomplished with National Defense Sealift Funds) - OPEVAL Planning. (Anticipating RDT&E funds to be available, \$0.250) <p>FY 2001 Plan (JMLS Development):</p> <ul style="list-style-type: none"> - (\$0.979) Resolve Technical Evaluation issues. - (\$4.000) Conduct JMLS OPEVAL. <p>B. Other Program Funding Summary (JMLS Development)</p> <table border="1"> <thead> <tr> <th></th> <th>FY1999</th> <th>FY2000</th> <th>FY2001</th> <th>FY2002</th> <th>FY2003</th> <th>FY2004</th> <th>FY2005</th> <th>To Complete</th> <th>Total Cost</th> </tr> </thead> <tbody> <tr> <td>CESE Line 6033 Amphib Equipment (OPN)</td> <td>0</td> <td>20.484</td> <td>51,615</td> <td>93,173</td> <td>104,242</td> <td>56,992</td> <td>14,643</td> <td>174,035</td> <td>515,184</td> </tr> <tr> <td>(U) Related RDT&E: n/a</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>C. Acquisition Strategy (JMLS): The MUA for the JMLS ACTD is scheduled to complete in 3Q FY00 to support a LRIP milestone decision in 4QFY00. Additional hardware will be procured by LRIP to conduct a full OPEVAL in 2Q-3Q FY01. OPEVAL results will be used to support a Full Production milestone decision in FY01.</p> <p>D. Schedule Profile:</p> <table border="1"> <thead> <tr> <th></th> <th>FY00</th> <th>FY01</th> </tr> </thead> <tbody> <tr> <td>Program Milestones</td> <td>- Complete ACTD MUA - LRIP MS</td> <td>- Resolve TECH EVAL issues. - Conduct OPEVAL</td> </tr> </tbody> </table>												FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	To Complete	Total Cost	CESE Line 6033 Amphib Equipment (OPN)	0	20.484	51,615	93,173	104,242	56,992	14,643	174,035	515,184	(U) Related RDT&E: n/a											FY00	FY01	Program Milestones	- Complete ACTD MUA - LRIP MS	- Resolve TECH EVAL issues. - Conduct OPEVAL
	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	To Complete	Total Cost																																					
CESE Line 6033 Amphib Equipment (OPN)	0	20.484	51,615	93,173	104,242	56,992	14,643	174,035	515,184																																					
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Program Milestones	- Complete ACTD MUA - LRIP MS	- Resolve TECH EVAL issues. - Conduct OPEVAL																																												

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Exhibit R-2a, RDT&E Project Justification
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Exhibit R-3 Cost Analysis (page 1)										DATE: February 2000		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
RDT&E,N/BA7			Amphibious Tactical Spt Unit/0204413N			Amphibious Lighterage Development (JMLS Development)/Y2909						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 99 Cost	FY 99 Award Date	FY 00 Cost	FY 00 Award Date	FY 01 Cost	FY 01 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development										0.000	0.000	
Ancillary Hardware Development										0.000	0.000	
Systems Engineering										0.000	0.000	
Licenses											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal Product Development			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												
Development Support Equipment											0.000	
Software Development											0.000	
Training Development											0.000	
Integrated Logistics Support											0.000	
Configuration Management											0.000	
Technical Data											0.000	
GFE											0.000	
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												

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Exhibit R-3, Project Cost Analysis
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Exhibit R-3 Cost Analysis (page 2)								DATE: February 2000				
APPROPRIATION/BUDGET ACTIVITY RDT&E,N			PROGRAM ELEMENT Amphibious Tactical Spt Unit/0204413N			PROJECT NAME AND NUMBER Amphibious Lighterage Development (JMLS Development)/Y2909						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 99 Cost	FY 99 Award Date	FY 00 Cost	FY 00 Award Date	FY 01 Cost	FY 01 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation			0.000	0.000							0.000	
Operational Test & Evaluation								4.000			4.000	
Tooling											0.000	
GFE											0.000	
Subtotal T&E			0.000	0.000		0.000		4.000		0.000	4.000	
Remarks:												
Contractor Engineering Support	CPRR	TBD	0.000	0.000				0.900			0.900	
Government Engineering Support	WR	NSWC Bethesda, Md						0.079			0.079	
Program Management Support	CPFF	various						0.000			0.000	
Travel											0.000	
Labor (Research Personnel)											0.000	
Overhead											0.000	
Subtotal Management			0.000	0.000		0.000		0.979		0.000	0.979	
Remarks:												
Total Cost			0.000	0.000		0.000		4.979		0.000	4.979	
Remarks:												

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Exhibit R-3, Project Cost Analysis
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